

IN THE CLAIMS:

5      Claim 1. (original): A method for suppressing gene expression in a eukaryotic cell comprising, transforming said cell with a recombinant construct comprising, a promoter functional in said cell operatively linked to a sense nucleotide sequence of a gene to be suppressed, wherein nucleus-to-cytoplasm transport of transcription products of said construct is inhibited.

        Claim 2. (original): The method of claim 1, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a normal 3' UTR.

        Claim 3. (original): The method of claim 1, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a 3' terminal sequence.

        Claim 4. (original): The method of claim 1, wherein said construct further comprises at least one self cleaving ribozyme.

        Claim 5. (original): The method of claim 1, wherein said promoter is selected from the group consisting of a constitutive promoter, an inducible promoter, a tissue specific promoter, and a developmentally regulated promoter.

        Claim 6. (original): The method of claim 1, wherein said construct further comprises at least one additional sense nucleotide sequence of at least one additional gene operatively linked to said promoter.

Claim 7. (original): A method for suppressing gene expression in a eukaryotic cell comprising, transforming said cell with a recombinant construct comprising, a promoter functional in said cell operatively linked to a plurality of antisense nucleotide sequences of a gene or genes to be suppressed, wherein nucleus-to-cytoplasm transport of transcription products of said construct is inhibited.

Claim 8. (original): The method of claim 7, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a normal 3' UTR.

Claim 9. (original): The method of claim 7, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a 3' terminal sequence.

Claim 10. (original): The method of claim 7, wherein said construct further comprises at least one self cleaving ribozyme.

Claim 11. (original): The method of claim 7, wherein said promoter is selected from the group consisting of a constitutive promoter, an inducible promoter, a tissue specific promoter, and a developmentally regulated promoter.

Claim 12. (original): A method for suppressing expression of a gene in a plant cell, comprising transforming said plant cell with a recombinant construct comprising, a promoter functional in said plant cell, and an antisense nucleotide sequence for the gene to be suppressed, wherein nucleus-to-

cytoplasm transport of transcription products of said construct is inhibited.

Claim 13. (original): The method of claim 12, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a normal 3' UTR.

Claim 14. (original): The method of claim 12, wherein said construct further comprises at least one self cleaving ribozyme.

Claim 15. (original): The method of claim 12, wherein said promoter is selected from the group consisting of a constitutive promoter, an inducible promoter, a tissue specific promoter, and a developmentally regulated promoter.

Claim 16. (original): A recombinant vector comprising, a promoter functional in a eukaryotic cell operatively linked to a nucleotide sequence selected from the group consisting of:

- a) at least one sense nucleotide sequence of at least one gene to be suppressed,
- b) a plurality of antisense nucleotide sequences of at least one gene to be suppressed, and
- c) at least one antisense nucleotide sequence for at least one gene to be suppressed;

wherein nucleus-to-cytoplasm transport of transcription products of said at least one nucleotide sequence is inhibited.

Claim 17. (original): The recombinant vector of claim 16, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a normal 3' UTR.

Claim 18. (original): The recombinant vector of claim 16, wherein said construct further comprises at least one self cleaving ribozyme.

Claim 19. (original): The recombinant vector of claim 16, wherein said promoter is selected from the group consisting of a constitutive promoter, an inducible promoter, a tissue specific promoter, and a developmentally regulated promoter.

Claim 20. (original): A host cell comprising the recombinant vector of claim 16.

Claim 21. (original): A eukaryotic cell whose genome includes a recombinant construct comprising, a promoter functional in said eukaryotic cell operatively linked to at least one sense nucleotide sequence of at least one gene to be suppressed, wherein nucleus-to-cytoplasm transport of transcription products of said construct is inhibited.

Claim 22. (original): The eukaryotic cell of claim 21, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a 3' terminal sequence.

Claim 23. (original): The eukaryotic cell of claim 21, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a normal 3' UTR.

Claim 24. (original): The eukaryotic cell of claim 21, wherein said construct further comprises at least one self cleaving ribozyme.

Claim 25. (original): The eukaryotic cell of claim 21, wherein said promoter is selected from the group consisting of a constitutive promoter, an inducible promoter, a tissue specific promoter, and a developmentally regulated promoter.

Claim 26. (original): A plant comprising at least one cell of claim 21.

Claim 27. (original): A eukaryotic cell whose genome includes a recombinant construct comprising, a promoter functional in said eukaryotic cell operatively linked to a plurality of antisense nucleotide sequences of at least one gene to be suppressed, wherein nucleus-to-cytoplasm transport of  
5 transcription products of said construct is inhibited.

Claim 28. (original): The eukaryotic cell of claim 27, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a normal 3' UTR.

Claim 29. (original): The eukaryotic cell of claim 27, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a 3' terminal sequence.

Claim 30. (original): The eukaryotic cell of claim 27, wherein said construct further comprises at least one self cleaving ribozyme.

Claim 31. (original): The eukaryotic cell of claim 27, wherein said promoter is selected from the group consisting of a

constitutive promoter, an inducible promoter, a tissue specific promoter, and a developmentally regulated promoter.

Claim 32. (original): A plant comprising at least one cell of claim 27.

Claim 33. (original): A plant cell whose genome includes a recombinant construct comprising, a promoter functional in said plant cell operatively linked to at least one antisense sequence for at least one gene to be suppressed; wherein nucleus-to-  
5 cytoplasm transport of transcription products of said construct is inhibited.

Claim 34. (original): The plant cell of claim 33, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a normal 3' UTR.

Claim 35. (original): The plant cell of claim 33, wherein said inhibition of nucleus-to-cytoplasm transport is due to a lack of a 3' terminal sequence.

Claim 36. (original): The plant cell of claim 33, wherein said construct further comprises at least one self cleaving ribozyme.

Claim 37. (original): The plant cell of claim 33, wherein said promoter is selected from the group consisting of a constitutive promoter, an inducible promoter, a tissue specific promoter, and a developmentally regulated promoter.

Claim 38. (original): A plant comprising at least one cell of claim 33.

Claim 39. (original): A seed from the plant of claim 38.

Claim 40. (original): The progeny of the plant of claim 38.

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Claim ~~41~~. (new): A transgenic soybean, wherein the oleic acid content of said soybean is at least about 40%.

Claim 42. (new): The transgenic soybean of claim 41, wherein the oleic acid content of said soybean is at least about 46.9%.

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Claim 43. (new): The transgenic soybean of claim 41, wherein the oleic acid content of said soybean is at least about 57.2%

Claim 44. (new): The transgenic soybean of claim 41, wherein the oleic acid content of said soybean is at least about 68.8%.

Claim 45. (new): The transgenic soybean of claim 41 wherein the oleic acid content of said soybean is at least about 70%.

Claim 46. (new): The transgenic soybean of claim 41, wherein the oleic acid content of said soybean is at least about 77.2%.

Claim 47. (new): The transgenic soybean of claim 41 wherein the oleic acid content of said soybean is at least about 82.2%.

Claim 48. (new): The transgenic soybean of claim 41, wherein the oleic acid content of said soybean is at least about 87.2%.

Claim 49. (new): The transgenic soybean of claim 48, wherein the saturated fatty acid composition of said soybean is not more than about 5.6%.

Claim 50. (new): The transgenic soybean of claim 41 wherein the oleic acid content of said soybean is at least about 90%.

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5 Claim ~~51~~. (new): A transgenic soybean, wherein the oleic acid content of said soybean is at least about 46.9%, and wherein said soybean comprises at least one cell whose genome includes a recombinant construct comprising, a promoter functional in said soybean operatively linked to at least one sense nucleotide sequence for at least one gene to be suppressed, wherein nucleus-to-cytoplasm transport of transcription products of said construct is inhibited.

Claim 52. (new): The transgenic soybean of claim 51, wherein said construct comprises at least one self-cleaving ribozyme.

Claim 53. (new): The transgenic soybean of claim 51, wherein said at least one gene comprises FatB and/or FAD2-1.



Claim ~~54~~. (new): A transgenic soybean, wherein the oleic acid content of said soybean is at least about 57.2%, wherein said soybean comprises at least one cell whose genome includes a recombinant construct comprising, a promoter functional in said soybean operatively linked to at least one antisense nucleotide sequence for at least one gene to be suppressed, wherein nucleus-to-cytoplasm transport of transcription products of said construct is inhibited.

Claim 55. (new): The transgenic soybean of claim 54, wherein said construct comprises at least one self-cleaving ribozyme.

Claim 56. (new): The transgenic soybean of claim 54, wherein said at least one gene comprises FAD2-1.

Claim ~~57~~. (new): A transgenic soybean, wherein the oleic acid content of said soybean is at least about 68.8%, wherein said soybean comprises at least one cell whose genome includes a recombinant construct comprising, a promoter functional in said soybean operatively linked to at least one sense nucleotide sequence for at least one gene to be suppressed, wherein nucleus-to-cytoplasm transport of transcription products of said construct is inhibited.

Claim 58. (new): The transgenic soybean of claim 57, wherein said construct comprises at least one self-cleaving ribozyme.

Claim 59. (new): The transgenic soybean of claim 57, wherein said at least one gene comprises FatB and/or FAD2-1.

Claim 60. (new): The transgenic soybean of claim 57, wherein the oleic acid content of said soybean is at least about 87.2%.

Claim 61. (new): The transgenic soybean of claim 60, wherein the saturated fatty acid composition of said soybean is not more than about 5.6%.

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5 Claim ~~62~~. (new): A transgenic soybean, wherein the oleic acid content of said soybean is at least about 77.2%, wherein said soybean comprises at least one cell whose genome includes a recombinant construct comprising, a promoter functional in said soybean operatively linked to at least one sense nucleotide sequence for at least one gene to be suppressed, wherein nucleus-to-cytoplasm transport of transcription products of said construct is inhibited.

Claim 63. (new): The transgenic soybean of claim 62, wherein said construct comprises at least one self-cleaving ribozyme.

Claim 64. (new): The transgenic soybean of claim 62, wherein said at least one gene comprises FAD2-1.

Claim ~~65~~. (new): A transgenic soybean, wherein the oleic acid content of said soybean is at least about 82.2%, wherein said soybean comprises at least one cell whose genome includes a

5 recombinant construct comprising, a promoter functional in said  
soybean operatively linked to at least one antisense nucleotide  
sequence for at least one gene to be suppressed, wherein nucleus-  
to-cytoplasm transport of transcription products of said  
construct is inhibited.

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Claim 66. (new): The transgenic soybean of claim 65,  
wherein said at least one gene comprises FAD2-1.

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